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1. MDA11-T001: Develop Accelerated High Power RF MEMs Switch and Phase Shifter Reliability Test Methodologies

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: This topic seeks to identify and develop high-power Radio Frequency Micro Electro-Mechanical Systems (RF-MEMS) accelerated reliability test methodologies to reduce technology acceptance time for switched phase shifters that utilize capacitive or contact RF MEMS switches. Currently, life testing conducted on RF MEMs switching devices requires significant time and cost due to a lack of ph ...

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2. MDA11-T002: Defect Reduction Techniques for Large Format Infrared Detector Materials

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: The overall objective of this effort is to develop innovative solutions to significantly decrease the defect and dislocation sizes and densities in large format ($>25 \text{ cm}^2$) II-VI compound semiconductor infrared detector materials. Emphasis shall be given to detectors operating in the short through mid-long wavelength regime (~ 10 micron cut-off).
DESCRIPTION: The Missile Defense Agency ...

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